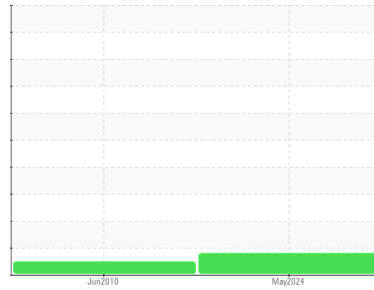




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
KAESER SM 15 3497662 (S/N 1166)
 Component
Compressor
 Fluid
KAESER SIGMA (OEM) M-460 (--- GAL)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of particulates present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			KCPA016682	KC19004	---
Sample Date	Client Info			07 May 2024	26 Jun 2010	---
Machine Age	hrs	Client Info		36356	9237	---
Oil Age	hrs	Client Info		3000	9237	---
Oil Changed	Client Info			Changed	N/A	---
Sample Status				ATTENTION	NORMAL	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	<1	---
Chromium	ppm	ASTM D5185m	>10	0	0	---
Nickel	ppm	ASTM D5185m	>3	0	<1	---
Titanium	ppm	ASTM D5185m	>3	0	0	---
Silver	ppm	ASTM D5185m	>2	0	0	---
Aluminum	ppm	ASTM D5185m	>10	0	<1	---
Lead	ppm	ASTM D5185m	>10	0	0	---
Copper	ppm	ASTM D5185m	>50	<1	8	---
Tin	ppm	ASTM D5185m	>10	<1	0	---
Antimony	ppm	ASTM D5185m		---	6	---
Vanadium	ppm	ASTM D5185m		0	0	---
Cadmium	ppm	ASTM D5185m		0	0	---

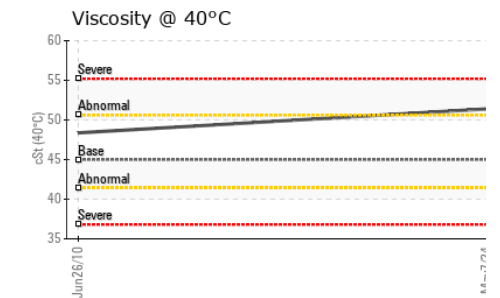
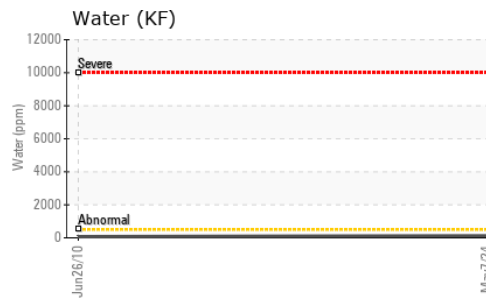
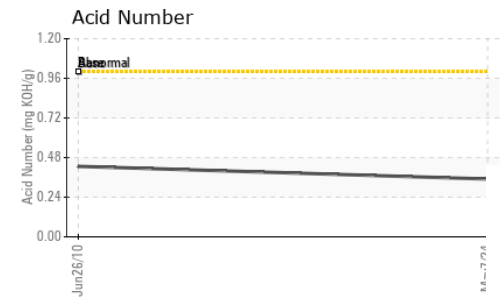
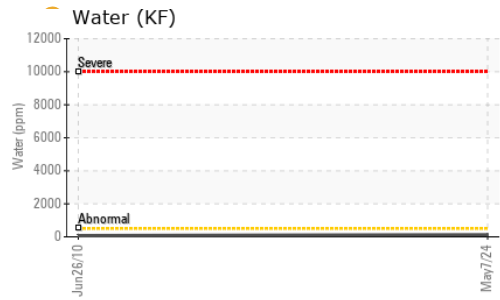
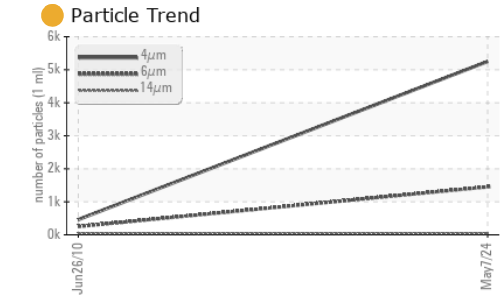
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	<1	---
Barium	ppm	ASTM D5185m	90	11	10	---
Molybdenum	ppm	ASTM D5185m	0	0	1	---
Manganese	ppm	ASTM D5185m		0	0	---
Magnesium	ppm	ASTM D5185m	100	31	10	---
Calcium	ppm	ASTM D5185m	0	3	<1	---
Phosphorus	ppm	ASTM D5185m	0	117	2	---
Zinc	ppm	ASTM D5185m	0	11	0	---
Sulfur	ppm	ASTM D5185m	23500	15742	13029	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0	0	---
Sodium	ppm	ASTM D5185m		4	0	---
Potassium	ppm	ASTM D5185m	>20	0	0	---
Water	%	ASTM D6304	>0.05	0.013	0.007	---
ppm Water	ppm	ASTM D6304	>500	134	70	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		5251	461	---
Particles >6µm		ASTM D7647	>1300	1452	251	---
Particles >14µm		ASTM D7647	>80	43	42	---
Particles >21µm		ASTM D7647	>20	4	14	---
Particles >38µm		ASTM D7647	>4	0	2	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	>--/17/13	20/18/13	15/13	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.35	0.427	---

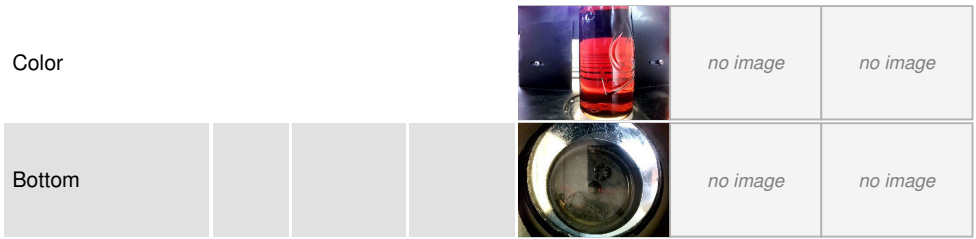
OIL ANALYSIS REPORT



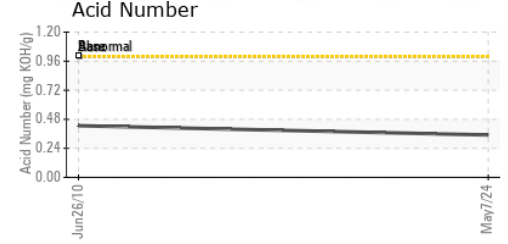
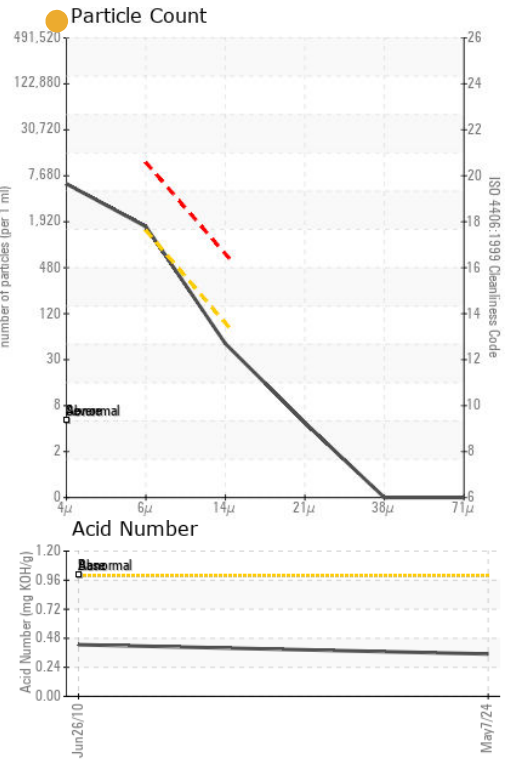
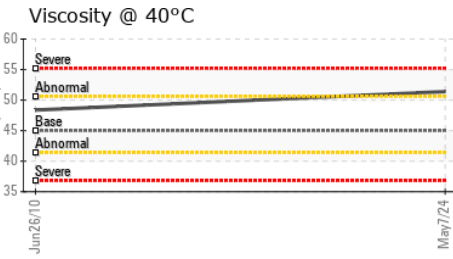
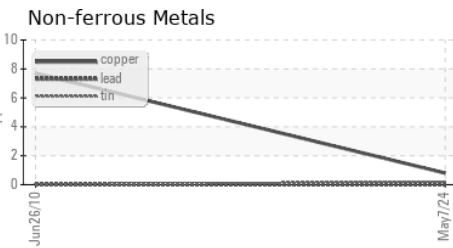
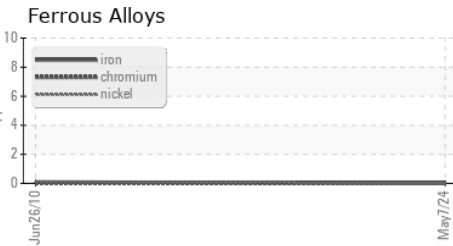
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	VLITE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	51.4	48.37

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCPA016682 **Received** : 10 May 2024
Lab Number : 06176092 **Tested** : 14 May 2024
Unique Number : 11022145 **Diagnosed** : 14 May 2024 - Don Baldrige
Test Package : IND 2 (Additional Tests: KF, PrtCount)

UNIVERSITY OF LOUISVILLE
 570 S. PRESTON ST.
 LOUISVILLE, KY
 US 40202
 Contact: SERVICE MANAGER

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)